



# CITY OF NEWPORT BEACH

## COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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### CAL GREEN RESIDENTIAL GENERAL NOTES

1. 2010 California Green Building Standards Code (CG) is applicable to new or newly constructed Low-Rise Residential Buildings (SFD, duplex, townhouse, condo up to 3 stories high). (CG Section 101.3.1). Incorporate the following California Green Building Standards Code sections into your design and add them as general notes on the plan.

#### **Energy Efficiency**

2. Each appliance provided by the builder to be ENERGY STAR if available. (CG A4.210.1)

#### **Water Efficiency and Conservation**

3. (Effective date: 7/1/2011): Indoor water use shall be reduced by at least 20% using one of the following method (CG Section 4.303.1):
  - a. Plumbing fixtures and fittings that meet reduced flow rated per Table 4.303.2

TABLE 4.303.2  
FIXTURE FLOW RATES

FIXTURE TYPE	FLOW RATE	MAXIMUM FLOW RATE $\geq$ 20% REDUCTION
Showerheads	2.5 gpm @ 80 psi	2 gpm @ 80 psi
Lavatory faucets	2.2 gpm @ 60 psi	1.5 gpm @ 60 psi <sup>2</sup>
Kitchen faucets	2.2 gpm @ 60 psi	1.8 gpm @ 60 psi
Water Closets	1.6 gallons/flush	1.28 gallons/flush <sup>1</sup>
Urinal	1.0 gallons/flush	0.5 gallon/flush

1. Includes single and dual flush water closets with an effective flush rate of 1.28 gallons or less when tested per ASME A122.19.233.2 for single flush and ASME A112.19.14 for dual flush toilets.

2. Lavatory faucets shall not have a flow rate less than 0.8 gpm at 20 psi.

- b. Or, using a calculation of water use baseline per Table 4.303.1 using only water closets, urinals, lavatory faucets and showerheads.
4. (Effective date: 7/1/2011): the combined flow rate of all multiple showerheads shall not exceed flow rate as specified under 20% reduction column in Table 4.303.2. (CG Section 4.302.2)
  5. (Effective date 7/1/2011): Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall meet the standards referenced in Table 4.303.3. (CG Section 4.303.3)
  6. A kitchen faucet will use maximum water flow rate 1.5 gallons per minute and dishwasher with ENERGY STAR using not more than 5.8 gallons of water per cycle. (CG Section A4.303.1)
  7. Automatic irrigation systems controllers shall be weather-based. (CG Section 4.304.1)

#### **Material Conservation and Resources Efficiency**

8. Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or other similar method acceptable to the enforcing agency. (CG Section 4.406.1)
9. An operation and maintenance manual, CD, web-based reference or other approved media shall be provided by the builder to the building occupant or owner at the final inspection. It shall

include operation and maintenance instruction of the equipment and appliances. (CG Section 4.410.1)

### **Environmental Quality**

10. Adhesives, sealants and caulks shall be compliant with volatile organic compound (VOC) limits, Table 4.504.1 or Table 4.504.2. (CG Section 4.504.2.1)
11. Paints, stains, and other coatings shall be compliant with VOC and other toxic compound limits, Table 4.504.3. (CG Section 4.504.2.2)
12. Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds. (CG Section 4.504.2.3):
13. Documentation shall be provided to verify that compliant VOC limit finish materials have been used. (CG Section 4.504.2.4)
14. Carpet and carpet systems shall be compliant with VOC limits. (CG Section 4.504.3):
15. 50% of floor area receiving resilient flooring shall comply with the VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or be certified under the Resilient Floor Covering Institute (RFCI) FloorScore program. (CG Section 4.504.4)
16. Particleboard, medium density fiberboard (MDF) and plywood used in interior finish systems shall comply with low formaldehyde emission standards. (CG Section 4.504.5)
17. Moisture content of building materials used in wall and floor framing is checked before enclosure according to procedure in CG Section 4.505.3.
18. Higher than Merv 7 filters shall be installed on central or ventilation systems. NBMC 15.11.020.
19. Duct systems are sized, designed and equipment is selected using the following methods (CG Section 4.507.2):
  - a. Establish heat loss and heat gain values according to ACCA Manual J, ASHRAE handbooks or equivalent design methods...
  - b. Size duct systems according to ACCA 29-D (Manual D) ASHRAE handbooks or equivalent.
  - c. Select heating and cooling equipment according to ACCA 36-S (Manual S) or equivalent.
20. Duct openings and other related air distribution component openings shall be covered during construction. (CG Section 4.504.1)

### **Installer and Special Inspector Qualifications**

21. HVAC system installers shall be trained and certified or work under direct supervision of trained and certified installers in the proper installation of HVAC systems. (CG Section 702.1)
22. When required by the enforcing agency, HVAC special inspectors must be qualified and able to demonstrate competence in the discipline they are inspecting. (CG Section 702.2)
23. Documentation which shows compliance with CAL Green code including construction documents, plans, specifications, builder or installer certification, and inspection reports and verification shall be available at the final inspection. (CG Section 703.1)
24. Installation Certificate of Compliance (City form) is required to be submitted to the Building Inspector prior to final building inspection. (CG Section 703.1)